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# Plant Variety Protection Office Official Journal



SEP 25 '87

PLANT VARIETY  
PROTECTION OFFICE  
U.S. DEPARTMENT OF AGRICULTURE

## PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office  
Livestock, Meat, Grain, & Seed Div., AMS  
U.S. Department of Agriculture  
National Agricultural Library Bldg., Rm. 500  
Beltsville, Maryland 20705

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## APPLICATIONS RECEIVED

APRIL 1, 1983, TO JUNE 30, 1983

Applications for protection have been filed for the following varieties, each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "UNAUTHORIZED PROPAGATION PROHIBITED--U.S. VARIETY PROTECTION APPLIED FOR."

KIND	APPL. NO.	VARIETY	APPL. DATE	NAME OF APPLICANT
BARLEY	* 8300106 * 8300107 8300110 560	Columbia WestBred Gustoe C-20	830405 830408 830617	Western Plant Breeders, Inc. Western Plant Breeders, Inc. Northrup King Co. Michigan Agric. Expt. Sta.
BEAN, FIELD	*			(1)
BEAN, GARDEN	8300117	Spinel	830502	Rogers Brothers Seed Co.
	8300118	Ivory	830502	Rogers Brothers Seed Co.
	8300121	Milano	830502	Ferry-Morse Seed Co.
CELERV	8300122	Summit	830610	Germinal Holdings Ltd., N. Ireland
CLOVER, WHITE	8300147	Ross	830405	Holden's Foundation Seeds, Inc.
CORN, FIELD	8300192	LH145	830428	Pioneer Hi-Bred Internat'l, Inc.
	8300115	AD38	830509	Pioneer Hi-Bred Internat'l, Inc.
	8300131	H7FS6	830523	Holden's Foundation Seeds, Inc.
	8300138	LH143	830516	Pioneer Hi-Bred Internat'l, Inc.
	8300140	HD22	830526	Pioneer Hi-Bred Internat'l, Inc.
	8300141	AB53	830526	Pioneer Hi-Bred Internat'l, Inc.
	8300142	AB70	830601	Pioneer Hi-Bred Internat'l, Inc.
	8300143	CJ13	830601	Pioneer Hi-Bred Internat'l, Inc.
	8300144	G3Y6	830601	Pioneer Hi-Bred Internat'l, Inc.
	8300148	LH132	830621	Holden's Foundation Seeds, Inc.
COTTON	8300157	F42	830630	FFR Cooperative, Inc.
	* 8300108	GP 1005	830407	G & P Seed Co., Inc.
	* 8300112	Deltapine NSL	830412	Delta and Pine Land Co.
	8300124	Bronco 625	830502	Bronco Seed Co.
LAURISAGRASS	*	Cowboy	830621	G. E. Pogue Seed Co., Inc.

\* To be sold by variety name only as a class of certified seed.

( ) No. of generations of certified seed permitted beyond breeder's seed.

**APPLICATIONS RECEIVED**  
APRIL 1, 1983, TO JUNE 30, 1983

KIND	APPL. NO.	VARIETY	APPL. DATE	NAME OF APPLICANT
MUSKMELON	83000113	TOP Net SR	830418	Moran Seeds, Inc.
PEA	83000109	Challis	830506	Ardie G. Gustafson, Seedsman
	83000114	<WIS-EX 82-1>	830422	Wisconsin Crop Improvement Assoc.
	83000133	<XP-F138>	830520	Asgrow Seed Co.
	83000134	<XP-F139>	830520	Asgrow Seed Co.
RICE	83000123	<RRI-7530>	830502	Rice Researchers, Inc.
RYEGRASS, PERENNIAL	83000152	Ovation	830629	Monniersteeg Intl. B.V., Neth.
RYEGRASS	83000125	Agree	830502	Pure-Seed Testing, Inc.
SOYBEAN	83000126	<H78-766>	830511	Jacob Hartz Seed Co., Inc.
	83000127	<H76-587>	830511	Jacob Hartz Seed Co., Inc.
	83000128	<H78-143>	830511	Jacob Hartz Seed Co., Inc.
	83000129	<H76-672-3A>	830511	Jacob Hartz Seed Co., Inc.
	83000130	<H76-502>	830511	Jacob Hartz Seed Co., Inc.
	83000135	A2943	830520	Asgrow Seed Co.
	83000136	A6520	830520	Asgrow Seed Co.
	83000137	A4997	830524	Asgrow Seed Co.
	83000139	A3966	830523	Asgrow Seed Co.
	83000145	Ruby	830603	North American Plant Breeders
	83000146	AP 330	830603	North American Plant Breeders
SUNFLOWER	83000132	SS405B	830512	Stauffer Chemical Co.
TOMATO	83000119	Apex 1000	830502	Ferry-Morse Seed Co.
	83000120	Apex 2000	830502	Ferry-Morse Seed Co.
WATERMELON	83000101	Big Crimson	830418	Coffey Seed Co.
WHEAT, COMMON	* 83000103	Mustang	830405	North American Plant Breeders (3)
	* 83000104	Magnum	830405	North American Plant Breeders (3)
	* 83000105	Wrangler	830405	North American Plant Breeders (3)
	* 83000111	Ram	830411	North American Plant Breeders (3)

\* To be sold by variety name only as a class of certified seed.

< > Identifies temporary designation.

( ) No. of generations of certified seed permitted beyond breeder's seed.

**APPLICATIONS RECEIVED (CONT.)**  
**APRIL 1, 1983, TO JUNE 30, 1983**

<u>KIND</u>	<u>APPL. NO.</u>	<u>VARIETY</u>	<u>APPL. DATE</u>	<u>NAME OF APPLICANT</u>
WHEAT, COMMON	* 8300116 * 8300151	Blazer Arkan	830502 830629	North American Plant Breeders Kansas Agric. Expt. Sta. (3)

\* To be sold by variety name only as a class of certified seed.  
( ) No. of generations of certified seed permitted beyond breeder's seed.

**APPLICATIONS AMENDED**

APRIL 1, 1983, TO JUNE 30, 1983

Information concerning the varieties listed below has been published previously in the Official Journal's list of "APPLICATIONS RECEIVED". During the examination process, the applicant requested this information to be amended as indicated below.

KIND	APPL. NO.	VARIETY	APPL. DATE	NAME OF APPLICANT
BARLEY	* 8300055	'Seven'	830117	Plant Breeders 1 (3)
		Variety with temporary designation of PBI-78-2R-7 named 'Seven'.		
BEAN, GARDEN	8100174	'Profit Maker'	810928	Agrigenetics Corporation
		Variety with temporary designation of 9014 named 'Profit Maker'.		
BEAN, GARDEN	8200007	'Shannon'	811022	Agrigenetics Corporation
		Variety with temporary designation of 9400 named 'Shannon'.		
BEAN, GARDEN	8200131	'Nerina'	820525	Royal Sluis, Neth.
		Variety name changed from 'Nerine' to 'Nerina'.		
LETUCE	8100051	'FM 8248'	810209	Ferry-Morse Seed Co.
		Variety name changed from 'Salmar' to 'FM 8248'.		
PEA	8200169	'77 Early Perfection'	820901	Canners Seed Corporation
		Variety name changed from '8221 Advanced Early Perfection' to '77 Early Perfection'.		

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**APPLICATIONS AMENDED (CONT.)**

APRIL 1, 1983, TO JUNE 30, 1983

KIND	APPL. NO.	VARIETY	APPL. DATE	NAME OF APPLICANT
TRITICALE	8200032	'Grace'	811123	Dessert Seed Co.

Variety with temporary designation 6TA476 named 'Grace'.

**APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE**  
APRIL 1, 1983, TO JUNE 30, 1983

Applications for the varieties listed below are no longer being considered for U.S. Plant variety protection. Propagation of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act. Varieties published in this list may possibly be protected under the Patent Act.

<u>KIND</u>	<u>APPL. NO.</u>	<u>VARIETY</u>
BEET, GARDEN	8200060	'Red Baron'
CELERY	8100150	'Grande'

**CERTIFICATES AMENDED**  
**APRIL 1, 1983, TO JUNE 30, 1983**

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice Under the Plant Variety Protection Act.

KIND	CERT. NO.	VARIETY	ISSUE DATE	NAME OF OWNER
CAULIFLOWER	8100063	'White Summer'	820819	Sluis & Groot B.V., Neth.
PEA, FIELD	* 8000016	'Maxi'	830324	Cebeco-Handelsraad, Neth. (3)
PEA, FIELD	* 8100054	'Miranda'	821028	Cebeco-Handelsraad, Neth. (3)

To be sold by variety name only as a class of certified seed with 3 generations of certified seed permitted beyond breeder's seed.

To be sold by variety name only as a class of certified seed with 3 generations of certified seed permitted beyond breeder's seed.

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( ) No. of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

ABBIL 1 - 1983, TO JUNE 30, 1983

Claims of the applicant regarding eligibility for plant variety protection have been substantiated for the following varieties, and certificates of plant variety protection have been issued. Seed of these varieties may be labeled as follows: "UNAUTHORIZED PROPAGATION PROHIBITED--U.S. PROTECTED VARIETY."

<u>CERT. NO.</u>	<u>VARIETY</u>	<u>ISSUE DATE</u>	<u>NAME OF OWNER</u>
8200066	'Zircon'	830428	Rogers Brothers Seed Co.
	'Zircon' most closely resembles 'Aurora'; however, 'Zircon' pods and seeds mature 4 than those of 'Aurora', and 'Zircon' pods are 1.54 cm longer than 'Aurora' pods.		
8100174	'Profit Maker'	830428	Agrigenetics Corporation
	'Profit Maker' most closely resembles 'Sprite'; however, 'Profit Maker' is 2 days earlier than than 'Sprite' pods and market maturity of 'Profit Maker'.		
8100175	'Broker's Choice'	830428	Agrigenetics Corporation
	'Broker's Choice' most closely resembles 'Provider'; however, anthocyanin pigment i the hypocotyl, stem, and leaves of 'Broker's Choice' but present in the hypocotyl, leaves of 'Provider'.		
8200007	'Shannon'	830428	Agrigenetics Corporation
	'Shannon' most closely resembles 'Cascade'; however, 'Shanon' matures fresh market later than 'Cascade' and 'Shanon' pods are straighter than 'Cascade' pods (9% vs. having a curvature greater than 14°).		

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)

APRIL 1, 1983, TO JUNE 30, 1983

<u>KIND</u>	<u>CERT. NO.</u>	<u>ISSUE DATE</u>	<u>VARIETY</u>	<u>NAME OF OWNER</u>
BROCCOLI RAAB	8200024	'D'Arrigo No. 905'		830526 D'Arrigo Bros. of California
				'D'Arrigo No. 905' most closely resembles 'D'Arrigo No. 113'; however, 'D'Arrigo No. 905' plants mature 5-6 days earlier, are 4 cm taller and have darker green foliage than 'D'Arrigo No. 113'. (RHS Color Chart 137B vs 137C).
CORN, FIELD	8200062	'LH51'		830526 Holden's Foundation Seeds, Inc.
				'LH51' most closely resembles 'Mol7Ht'; however, floury endosperm caps of 'LH51' kernels cover only a small portion of the kernel ends whereas the floury caps of 'Mol7Ht' kernels cover the entire ends and extend down the side of the kernels.
CORN, FIELD	8200063	'LH74'		830526 Holden's Foundation Seeds, Inc.
				'LH74' most closely resembles 'A632Ht'; however, at flowering 'LH74' leaves are upright whereas 'A632Ht' leaves are horizontal.
CORN, FIELD	8200064	'LH119'		830526 Holden's Foundation Seeds, Inc.
				'LH119' most closely resembles 'B73Ht'; however, at anthesis the tassel branches of 'LH119' are more horizontal than the tassel branches of 'B73Ht' ( $>45^\circ$ vs $<30^\circ$ from the main stalk).
FESCUE, TALL	8200175	Clemfine		830428 Lofts Seed, Inc.
				'Clemfine' most closely resembles 'Kentucky 31'; however, 'Clemfine' produces more panicles (396 vs 262/plant), and has shorter leaves (16.00 vs 18.78 cm) than 'Kentucky 31'.

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)  
 APRIL 1, 1983, TO JUNE 30, 1983

CERT. KIND	NO.	VARIETY	ISSUE DATE	NAME OF OWNER
LETTUCE	8100051	'FM 8248'	830526	Ferry-Morse Seed Co.
LETTUCE	8100156	'Red Coach 82'	830428	Bruce Church, Inc.
LETTUCE	8200027	'El Toro'	830428	Moran Seeds, Inc.
MUSKMELON	8200089	'Marathon'	830428	Northrup King Co.
ONION	8100128	'Glory'	830428	Dessert Seed Co., Inc.

'FM 8248' most closely resembles 'Salinas' and 'Vanguard'; however, 'FM 8248' is 18 days earlier to 50 percent flowering than 'Salinas', and 'FM 8248' has a medium yellow-green plant color whereas 'Vanguard' has a medium olive-green plant color (120 vs 125, ISCL-NBS Centroid Color Chart).

'Red Coach 82' most closely resembles 'Red Coach 74'; however, 'Red Coach 82' reaches market maturity 5-7 days later than 'Red Coach 74' and leaves of 'Red Coach 82' are glossy whereas leaves of 'Red Coach 74' are dull.

'El Toro' most closely resembles 'Salinas'; however, 'El Toro' is 3-5 days earlier to maturity and has a larger head size (15.0 vs 14.1 cm, trimmed head diameter) than 'Salinas' under cool growing conditions.

'Marathon' is most similar to 'PMR 45' and 'Top Mark'; however, 'Marathon' fruits are ribless and its plants are resistant to sulphur burn and crown blight whereas 'PMR 45' fruits are ribbed and its plants are susceptible to sulphur burn and crown blight. 'Marathon' is resistant to powdery mildew, race 1 whereas 'Top Mark' is susceptible.

'Glory' is most similar to 'New Mexico Yellow Grano'; however, 'Glory' has globe-shaped vs top-shaped bulbs and is about 11 days later in maturity than 'New Mexico Yellow Grano'.

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)

APRIL 1, 1983, TO JUNE 30, 1983

<u>KIND</u>	<u>CERT. NO.</u>	<u>VARIETY</u>	<u>ISSUE DATE</u>	<u>NAME OF OWNER</u>
ONION	81001129	'Paradise'	830428	Dessert Seed Co., Inc.
		'Paradise' is most similar to 'New Mexico White Grano'; however, 'Paradise' matures approximately 16 days later than 'New Mexico White Grano'.		
ONION	81001130	'Regal'	830428	Dessert Seed Co., Inc.
		'Regal' is most similar to 'Red Grano'; however, 'Regal' matures 7-10 days earlier than 'Red Grano'. 'Regal' has flattened bulbs whereas 'Red Grano' has top-shaped bulbs.		
ONION	82001170	'Texas Grano 1015Y'	830630	Texas Agric. Expt. Sta.
		'Texas Grano 1015Y' most closely resembles 'Texas Early Grano 502', 'Ringer', and 'Colossal'; however, 'Texas Grano 1015Y' has a definite flattened globe shape whereas 'Colossal' is oblong and 'Texas Early Grano 502' and 'Ringer' are top-shaped.		
ONION	82001171	'Texas Grano 1025Y'	830630	Texas Agric. Expt. Sta.
		'Texas Grano 1025Y' is more similar to 'Texas Early Grano 502', 'Ben Shemen' and 'New Mexico Yellow Grano' than other onion varieties; however, 'Texas Grano 1025Y' has globe-shaped bulbs, pale yellow skin color and is resistant to pinkroot whereas 'Texas Early Grano 502' has top-shaped bulbs, 'Ben Shemen' has brown skin color, and 'New Mexico Yellow Grano' is susceptible to pinkroot.		
ONION	82001172	'Texas Grano 1030Y'	830630	Texas Agric. Expt. Sta.
		'Texas Grano 1030Y' is most similar to 'New Mexico Yellow Grano'; however, 'Texas Grano 1030Y' is resistant to pinkroot whereas 'New Mexico Yellow Grano' is susceptible.		

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)  
 APRIL 1, 1983, TO JUNE 30, 1983

<u>KIND</u>	<u>CERT. NO.</u>	<u>VARIETY</u>	<u>ISSUE DATE</u>	<u>NAME OF OWNER</u>
ONION	8200173	'Texas Grano 1105Y'	830630	Texas Agric. Expt. Sta.
				'Texas Grano 1105Y' is most similar to 'New Mexico Yellow Grano'; however, 'Texas Grano 1105Y' is approximately 1 week later than 'New Mexico Yellow Grano'. 'Texas Grano 1105Y' has flattened globe-shaped bulbs and is resistant to pinkroot whereas 'New Mexico Yellow Grano' has top-shaped bulbs and is susceptible to pinkroot.
SOYBEAN	8100145	'2400'	830630	Northrup King Co.
				'2400' is most similar to 'SL474', 'Sloan', and 'S2596'; however (1) '2400' has tan pods whereas 'SL474' has brown pods, (2) '2400' has purple flowers whereas 'Sloan' has white flowers, and (3) '2400' has 1-3 branches per plant whereas 'S2596' has 4-6 branches per plant.
SOYBEAN	8200098	'71229-31008'	830428	Midwest Oilseeds, Inc.
				'71229-31008' is most similar to 'CS31' and 'Wayne'; however, '71229-31008' has black hilae and light brown pubescence whereas 'CS31' has brown hilae and 'Wayne' has dark brown pubescence.
SOYBEAN	8200099	'90339-30435'	830526	Midwest Oilseeds, Inc.
				'90339-30435' is most similar to 'Wells'; however, '90339-30435' has gray hilae whereas 'Wells' has imperfect black hilae.
SOYBEAN	8200101	'60524-30575'	830526	Midwest Oilseeds, Inc.
				'60524-30575' is most similar to 'Beeson'; however, '60524-30575' has gray hilae and is susceptible to <u>Phytophthora</u> root rot whereas 'Beeson' has imperfect black hilae and is resistant to <u>Phytophthora</u> root rot, races 1 and 2.

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)  
 APRIL 1, 1983, TO JUNE 30, 1983

<u>KIND</u>	<u>CERT. NO.</u>	<u>VARIETY</u>	<u>ISSUE DATE</u>	<u>NAME OF OWNER</u>
SOYBEAN	8200115	'1082'	830526	Pioneer Hi-Bred International, Inc.
		'1082' is most similar to 'Evans'; however, '1082' has purple flowers and imperfect black hilae whereas 'Evans' has white flowers and yellow hilae.		
SOYBEAN	8200116	'5482'	830630	Pioneer Hi-Bred International, Inc.
		'5482' is most similar to 'Forrest'; however, '5482' is susceptible to race 3, soybean cyst nematode whereas 'Forrest' is resistant.		
SOYBEAN	8200119	'9561'	830630	Pioneer Hi-Bred International, Inc.
		'9561' is most similar to 'Forrest'; however, '9561' plants are 8 cm taller than 'Forrest' plants. '9561' has slender plant type whereas 'Forrest' has bushy plant type.		
SOYBEAN	*	8200124 'DSR-227'	830630	Dairyland Seed Co., Inc. (2)
		'DSR-227' is most similar to 'DSR-232'; however, 'DSR-227' has buff hilae whereas 'DSR-232' has imperfect black hilae.		
SOYBEAN	8200165	'S69-96'	830428	Northrup King Co.
		'S69-96' is most similar to 'Davis'; however, 'S69-96' has smaller seeds than 'Davis' (13.5 vs 17.2 grams per 100 seeds).		
TREFOIL, BIRDSFOOT	8200143	'Fergus'	830630	University of Kentucky
		'Fergus' is most similar to 'Carroll'; however, 'Fergus' blooms 5-7 days earlier in Iowa and Indiana and has smaller seeds than 'Carroll'.		

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM (CONT.)  
APRIL 1, 1983, TO JUNE 30, 1983

<u>KIND</u>	<u>CERT. NO.</u>	<u>VARIETY</u>	<u>ISSUE DATE</u>	<u>NAME OF OWNER</u>
TRITICALE	82000032	Grace	830630	Dessert Seed Co., Inc.

'Grace' is most similar to 'Pathfinder' (=6TA208); however, 'Grace' is 11 cm shorter than 'pathfinder' at full heading.

## GENERAL INFORMATION

### Correction to Previous Journals.

A hyphen was omitted from the names of four soybean varieties in Volume 10, No. 2, page 4 of the Official Journal. The names of the varieties should be 'DSR-320', 'DSR-227', 'DSR-352', and 'DSR-303'.

Volume 11, No.1, page 4, should show that 'Piston' barley (Application No. 8300087) is to be sold by variety name only as a class of certified seed with 3 generations of certified seed permitted beyond breeder's seed.

### Expanded Eligibility for Protection of Foreign Varieties

The Agricultural Marketing Service, USDA, expanded the eligibility of foreign varieties, in a rule published July 6, 1983, in the FEDERAL REGISTER to become effective August 5, 1983. The rule brings Plant Variety Protection Regulations into conformance with the International Union for the Protection of New Varieties of Plants (UPOV) treaty. The change allows marketing a variety in a foreign country for up to 6 years in the case of woody plants and 4 years for all other plants before becoming ineligible to file for protection in the United States. The rule also extends all the rights under the Act to nationals and residents of all UPOV member countries.

### Request for Assistance.

The Plant Variety Protection Office (PVPO) is continuing its effort to improve the variety description information which it has in its files for searching applications. A request for assistance was published in Volume 11, No. 1, page 21 of the Official Journal. Descriptive files on soybean varieties were made available to breeders and researchers for comment on June 1, 1983; but, because of inadvertent delays in publishing the request for assistance there has been insufficient time to evaluate the soybean response. However, additional crop files will be made available for distribution on September 1, 1983.

In addition to the soybean list, the PVPO lists of bean, cotton, cowpea and pea varieties will be ready for distribution by September 1, 1983. Anyone wishing to participate in the project on a specific crop can do so by writing to Kenneth H. Evans, Commissioner, Plant Variety Protection Office, Livestock, Meat, Grain, and Seed Division, AMS, National Agricultural Library Building, Room 500, Beltsville, Maryland 20705 or by calling (301) 344-2518.

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ERRATA NOTICE

Corrections to Previous Journals.

Volume 11, No. 1

Correction to Plant Variety Protection Office Official Journal Volume 11, No. 1, 1984, page 1.

The field bean variety 'Garnet', Application No. 8300100, was incorrectly listed as a garden bean.

Volume 11, No. 2

Correction to Plant Variety Protection Office Official Journal Volume 11, No. 2, 1984, page 4.

The field bean variety 'Ivory', Application No. 8300110, was incorrectly listed as a garden bean.

Index to Volume 11, 1983.

Correction to Plant Variety Protection Office Official Journal Index to Volume 11, 1983 (page 4) incorrectly stated 'Wesland' field bean (Application No. 8400008) was to be sold by variety name only as a class of certified seed. 'Wesland' is not required to be sold by variety name only as a class of certified seed.

Volume 12, No. 4.

Correction to Plant Variety Protection Office Official Journal Volume 12, No. 4, 1984.

Due to an office error amendments to four certificates were not listed correctly. Page 19a may be removed from the center of this Journal and inserted into Volume 12, No. 4.

Index to Volume 12, 1984.

Corrections to Plant Variety Protection Office Official Journal Index to Volume 12, 1984.

The field bean varieties 'Ivory' (Application No. 8300110) and 'Garnet' (Application No. 8300100) were incorrectly listed as garden beans.

Due to an office error three pages were missing from the printed Index. Pages 24a, 24b and 39 may be removed from the center of this Journal and inserted into the Index to Volume 12.

CURRENT STOCK RECORDS

SEP 25 '87

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